

## ABSTRACT OF THE DISCLOSURE

Aluminum chloride is removed effectively from compound mixtures containing organochlorosilanes such as are produced in the direct synthesis, by adding a diluent containing organochlorosilanes and optionally chloromethane to a solids content  $< 15\%$  and a concentration of compounds having a boiling point  $> 71^{\circ}\text{C}$  of less than  $25\%$ , and evaporating this diluted mixture into a volatile product stream and an  $\text{AlCl}_3$  - containing solid.